FINANCIAL ASSISTANCE APPLICATION

TO: Mark Flachsbart MAIL CODE: WTR-5
CERTIFIED PROJECT OFFICER YES NO
CC: (Supervisor)
FROM: Alba Espitia, Grants Specialist
Grants Management Office, PMD-7
APPLICANT AZ Department of Environmental Quality CHECK ADDRESS
GRANT I.D.# <u>CP-97919801-0</u> PROGRAM <u>NPDFS-TMDL IT</u> 104(b)(3)
Attached is an application from the above-mentioned applicant. Please prepare a Decision Memo, route it through your immediate supervisor, through Quality Assurance Program, and to the Grants Management Office (GMO) In addition, attach a copy of the Commitment Notice or copy of the request to the Division's Administrative Contact NOTE: Please go to the "Region 9 Grants Online" database (Apps1) to access the most current WordPerfect version of the fill-in-the-blank Decision Memo. The IRM Help Line (7-8023) is available to assist should you have difficulty accessing the database.
Attached is an application from the above-mentioned applicant. Using IGMS, please prepare a Funding Recommendation (FR) and electronically route it through the Quality Assurance Program (and others, as applicable), and your immediate supervisor. Once you have the final FR & final commitment notice (CN), notify the Grant Specialist listed above, Grants Management Office (GMO). For IGMS questions, call Alba Espitia, 2 3667 or Renee Chan, 2-3675. NOTE: Please go to the "Region 9 Grants Online" database (Apps 1) to access supplemental information for the FR. When you've completed the "Supplement to FR", either cut & paste OR attach the file to the FR "attachment" field (above Project Funding table). The IRM Help Line (7-8023) is available to assist should you have difficulty accessing the database. The Project Officer Decision Memo should address the issues mentioned below, as applicable:
- Approval of Work Plan/Program Objectives and specific amount of Federal funding;
- Reflect appropriate Statutory Authority, Delegation of Authority, and Acquisition vs Assistance.
 Itemized Equipment Approval and <u>Amount(s)</u>. (If AIR recipient, specific identification of AMD approved nonrecurrent expenditures);
 Quality Assurance (QA) Plan approval date or a statement that a QA plan is unnecessary (all decision memos need to be signed by QAP, PMD-3, unless exempted from sign-off refer to 3/17/00 QA memo);
- Narrative of specific programmatic special conditions to be placed in cooperative agreement;
- Other issues specific to this program and/or award.
For continuing programs, formal written notice of application status from EPA to the recipient is expected within 45 days
of application and a final decision is required by regulation within 60 days.
** BASED ON NATIONAL POLICY, GRANT PROJECT OFFICERS MUST BE CERTIFIED. OUR RECORDS SHOW THAT YOU ARE NOT A CERTIFIE
PROJECT OFFICER. PLEASE SUBMIT YOUR DECISION MEMO AND COMMITMENT NOTICE FROM A CERTIFIED PROJECT OFFICER.

Revised 11/16/01 g:\user\share\opm\pmd7\forms\routeapp

APPLICATION F	OR ·		2. DATE SUBMITTED		Applicant Identifier
FEDERAL ASSIS	STANCE				
1. TYPE OF SUBMISSION			3. DATE RECEIVED BY	STATE	State Application Identifier
	application				
Construction	Construction				
			4. DATE RECEIVED B	Y FEDERAL AGENCY	Federal Identifier
X Non Construction	Non Construction				
5. APPLICANT INFORMATIO	N			· · · · · · · · · · · · · · · · · · ·	
Legal Name			Organizational Unit		
Arizona Department of Environmental Quality Water Quality Division					
Address (give City, county, sta	te and zip code)		1	number of person to b	
3033 North Central Av	e , , , , , , , , , , , , , , , , , , ,		matters involving this	application (give area	code)
Phoenix, AZ 85012				Karen L. Smith	
Maricopa County				(602) 207-2306	
6. EMPLOYER IDENTIFICATI	ON NUMBER (EIN)		7. TYPE OF APPLICAN		
86-6004791			A. State B. County	H. Independent SchoolI. St Cont. Institute	of Higher Learning
8. TYPE OF APPLICATION:			C. Municipal	J. Private Industry	
			D. Township	K. Indian Tribes	
X New	Continuation		E. Interstate F. Intermunicipal	L. Individual M. Profit Organizatio	n
If revision, enter appropriate le	tter(s) in Box(es)		G. Special District		···
A. Increase Award B. Decrease Award			9. NAME OF FEDERAL	AGENCY:	- 100 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
C. Increase Duration D. Decrease Duration			Melinda Tap	lin, Chief	
Other (Specify)	Other (Specify)			inistration Section, P	MD-7
10. CATALOG OF FEDERAL D	OMESTIC 6 6	- 4 6 3	U.S.EPA, Re	_	
ASSISTANCE NUMBER	• ———		San Francis	co, CA 94105	
TITLE: 104(B)(3) Arizo	ona TMDL II Grant		11. DESCRIPTIVE TITL	E OF APPLICANTS P	ROJECT
12. AREAS AFFECTED BY PR					
(cities, counties, states, etc					
Statewide					
13. PROPOSED PROJECT	ENDING DATE	14. CONGRESSIONA	AL DISTRICTS OF:	b. Project	
START DATE 07/01/02	06/30/04	a. Applicant	02	b. Project	01,02,03,04,05,06
15 ESTIMATED FUNDING:		16. IS APPLICATION SU	JBJECT TO REVIEW BY STA	TE EXECUTIVE ORDER 1	
a. Federal	\$130,000 .00	A. YES THIS	PREAPPLICATION WAS	MADE AVAILABLE TO	O THE
b. Applicant	.00	STATE EX	ECUTIVE ORDER 12372	PROCESS FOR REV	IEW ON:
c. State	.00		DATE	· · · · · · · · · · · · · · · · · · ·	-
d. Local	.00	B. NO	X PROGRAM IS NO	T COVERED BY E.Q. 123	72
e. Other	.00	, .	OR PROGRAM H	AS NOT BEEN SELECTE	D BY STATE FOR REVIEW
f. Program Income	.00	17. IS THE APPLICA	NT DELINQUENT ON AN		· ·
g. TOTAL 18. TO THE BEST OF MY KNO	\$130,000 .00	I DATA IN THIS APP		attach an explanation.	
THE DOCUMENT HAS BE					·
WITH THE ATTACHED ASSURANCES IF THE ASSISTANCE IS AWARDED.					
a. Typed name of authorized	•	b. Title		ECEIVED	c. Telephone number
Jacqueline E. Schafer			Director	NY - 8 2002	(602) 207-2203
d. Signature of Authorized Re	presentative	1.4411 -	W	MI -	e. Date Signed
d. Signature of Authorized Representative e. Date Signed 4/28/02					

New Or Revised Budge ral Non-Federal (f) \$130,000 CTION OR ACTIVITY (4)	(5)	Total (g) \$130,000 \$130,000 Total (6)
(f) \$130,000 \$130,000		(g) \$130,000 \$130,000
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	(5)	
	(5)	
(4)	(5)	
(4)	(5)	(6)
	· 1	
		n
		\$130,000
		\$130,000
		\$130,000

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Standard Form 424A (4-88) Prescribed by OMB Circular A-102

	SECTION C - I	NON FEDERAL RESOUR	CES			
(a) Grant Program		(b) Applicant		(c) State	(d) Other Sources	(e) TOTALS
8. State-Match						
9.						
10.				•		
11.		-				•
12. TOTALS (sum of lines 8 and 11)						
	SECTION D - I	FORECASTED CASH NE	EDS			
	FY 2003 Available	1st Quarter		2nd Quarter	3rd Quarter	4th Quarter
13. Federal	130,000	52,000		26,000	26,000	26,000
14. Non Federal					·	
15. Total (sum of lines 14 and 24)	130,000	52,000		26,000	26,000	26,000
SECTION E - BUI	OGET ESTIMATES OF FED	ERAL FUNDS NEEDED F	OR	BALANCE OF THE PR	OJECT	
				PAST FUNDING	PERIODS (Years)	
(a) Grant Program		(b) First		(c) Second	(d) Third	(e) Fourth
16.					·	
17.	···					
18.						
19.						
20. TOTALS (sum of lines 16-19)						
	SECTION F - 01	THER BUDGET INFORMA	ATIO	<u>N</u>		
		(ATTACH ADDITIONAL S				
21. Direct Charges: See detailed budget justification (attached)	pages.		22.	Indirect Charges:	49.94%	
	·.				of Personnel and Fringe	· ·
23. Remarks:	•					
- 		Authorized for Local Rep	l	untion	SF 424 A (4-88	Dama 2

Prescribed by OMB Circular A-102

FY 03 104(B)(3) Arizona TMDL II

Budget Period: 07/01/02-06/30/04

Budget Justification

	***************************************	1	T		T I
	FY 2003				
·	1				
	Budget				Total
			[]		
Personnel Costs			[]	·	
Fringe Benefits	·	·			
Fringe Benefits are computed	·				
at 24% for the Department of					
Environmental Quality			-		
_					
Travel			, ,		
Out-of-State					
See separate out of state					
travel list.					
					·
In-State			·		
Instate travel cost based on					
State authorized mileage and		-			
perdiem rate.					
<u>.</u>					, i
Equipment	•				
See separate equipment list.					
Other Operating					·
Funds will be used to pay for			ll ·		
non-capitalized equipment,		·			
training, maintenance and				·	
supplies during the grant					
period.		,			
Contractual	\$130,000				\$130,000
See separate contractual list.			· .		
Indirect					
The indirect cost rate for the				,	
Department of Environmental					
Quality is based on a fixed rate					
of 49.94%.					
TOTAL	\$130,000				\$130,000

FY 03 104(B)(3) Arizona TMDL II

Budget Period: 07/01/02-06/30/04

SECTION CONTRACTS

Hydologic S & A

TMDL

COST

\$130,000

\$130,000

104(B)(3) Arizona TMDL II Estimated Yearly Expenditures For Project Period of 7/01/02 through 6/30/04

FY 2003

\$65,000.00

FY 2004

\$65,000.00

TOTAL

\$130,000.00

For ADEQ Budget Office Use Only

Goal #1: Clean & Safe Water

Program #4610: WQ Assessment GW/SW

CTION/	RESPONS SECTIONS STAF	TITY	EVALUATION QUAN T=TARGET	OUTPUT DESCRIPTION	TASK/ GRANT
				SK: TMDL Analyses	1.8.10
				rsee Agency Total Maximum Daily Load (TMDL) rts and conduct TMDL's and related analyses.	
				LIVERABLES:	
ygy	Hydrology			Conduct elements of TMDL analyses for the following impaired waterbodies. Final report submittal dates to EPA are tentative based on estimated ARS 49-231 processing times	NPS Impl. III/IV/ *AzTMDLI/ *AzTMDLII
			1) T = 6/03 2) T = 6/03	 a. Collect historic data. 1) Boulder Creek - headwaters to Wilder Creek (flouride) 2) Little Colorado River - Porter Tank to 	
			3) T = 6/03 4) T = 6/03	McDonalds Wash (copper, silver) 3) Pinto Creek - headwaters to Roosevelt Lake (copper) 4) Queen Creek - headwaters to Superior Mine WWTP (copper)	
			1) T = 10/02 2) T = 3/03	 b. Prepare sample and analysis plan. 1. Boulder Creek - headwaters to Wilder Creek (flouride) 2. Little Colorado River - Porter Tank to 	
			3) T = 9/02	McDonalds Wash (copper, silver) 3. Pinto Creek - headwaters to Roosevelt lake (copper)	
			4) T = 12/02	 Queen Creek - headwaters to Superior Mine WWTP (copper) 	
			1) $T = 6/03$ 2) $T = 6/03$	 c. Perform water quality sampling.* 1) Boulder Creek - headwaters to Wilder Creek (flouride) 2) Little Colorado River - Porter Tank to McDonalds Wash (copper, silver) 3) Pinto Creek - headwaters to Roosevelt Lake (copper) 	
			4) T = 6/03		

^{*} Contracts to be funded by AzTMDLI & AzTMDLII to support TMDL workplan.

Goal # 1: Clean & Safe Water

Program #4610: WQ Assessment GW/SW

TASK/ GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
1.8.10	TASK: TMDL Analyses (Cont'd)		
	DELIVERABLES:		
	 d. Determine sufficiency of data for a TMDL calculation or delist proposal. 1) French Gulch - headwaters to Hassayampa (cadmium, copper, manganese, pH, Zinc) 	1) T = 10/02*	
	e. Calculate TMDL 1) French Gulch - headwaters to Hassayampa (cadmium, copper, manganese, pH, zinc)	T = 3/03*	
	f. Draft TMDL or delist report. 1) French Gulch - headwaters to Hassayampa (cadmium, copper, manganese, pH, zinc)	T = 5/03*	
	 g. Begin public participation process. 1. French Gulch - headwaters to Hassayampa (cadmium, copper, manganese, pH, zinc) 	T = 5/03*	
	Hold teleconferences with EPA Region IX TMDL staff.	T = Monthly	Hydrology
	Coordinate TMDL investigations with the National Forest Service and Bureau of Land Management to identify where scheduled stream remediation activities	T = Ongoing	Hydrology
	such as abandoned mine site mitigation and stream habitat restoration plans can be tied to a completed TMDL.		
	4. Continue TMDL training.	T = Ongoing	Hydrology

^{*} Date dependant on adequacy of storm sampling.

Goal #1: Clean & Safe Water

Program #4610: WQ Assessment GW/SW

TASK/ GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
1.8.10	TASK: TMDL Analyses (Cont'd)		
	DELIVERABLES:		٠.
	5. Continue work on carried-over TMDL analyses. Applicable work elements A-H will be listed next to each of these investigations. The listed target date		Hydrology
	corresponds to the furthest level of completion. A. Collect historic data. B. Prepare sample and analysis plan. C. Perform water quality sampling.		:
	 D Determine sufficiency of data for a TMDL calculation or delist proposal. E. Calculate TMDL. F. Draft TMDL or delist report. 		
	G Execute public participation process. H. Submit final TMDL or delist report to EPA. 1. Beaver Creek - Dry Beaver to Verde River	T = 12/02 (D)	
	(dissolved oxygen, turbidity) C, D 2. Beaver Creek - headwaters to Black River (phosphorous, turbidity) C	T = 6/03(C)	į
	3. Boulder Creek - Wilder Creek to Burro Creek (arsenic, beryllium, copper, lead, manganese, zinc) G, H	T = 9/02(H)	
	4. Christopher Creek - headwaters to Tonto Creek (nitrogen) C, D, E, F	T = 2/03(F)	
	5. Lakeside Lake (pH, dissolved oxygen, narrative nutrients, ammonia) F, G, H	T = 12/02(H)	
	6. Tonto Creek - headwaters to Haigler Creek (nitrogen, phosphorous, E. coli) C, D, E, F	T = 2/03(F)	
	7. Turkey Creek - headwaters to Poland Creek (arsenic, cadmium, copper, cyanide, pH, zinc) C, D, E, F, G	T = 6/03*(G)	
	8. Verde River - headwaters to Horseshoe Reservoir (nitrogen, phosphorous) D, E, F, G, H	T = 2/03(H)	

^{*} Date dependant on adequacy of storm sampling.

Goal # 1: Clean & Safe Water

Program #4610: WQ Assessment GW/SW

TASK/ GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
1.8.10	TASK: TMDL Analyses (Cont'd)	4	
	DELIVERABLES:		
	 West Fork Black River - headwaters to Black River East Fork (turbidity) C, D 	T = 6/03(C)	Hydrology
	 Wet Beaver - Long Canyon to Rarick (turbidity) C 	T = 12/02 (D)	Hydrology
		· ,	
	 Develop a SSS for Mule Gulch headwaters to below Bisbee WWTP (copper, pH, zinc). 	T = 6/03	Hydrology
	 Continue involvement in the Gila pesticide investigation focusing on the following listed water bodies: 		Hydrology
	 i. Buckeye Canal ii. Gila River - Salt River to Agua Fria iii. Gila River - Agua Fria to Waterman Wash iv. Gila River - Waterman Wash to Hassayampa v. Gila River - Hassayampa to Gillespie Dam 		•
	vi. Gila River - Gillespie Dam to Centennial Wash vii. Gila River - Centennial Wash to Rainbow Wash viii. Gila River - Rainbow Wash to Sand Tank ix. Gila River - Sand Tank to Painted Rock x. Hassayampa River - Buckeye Canal to Gila River		
	xi. Salt River - 23 rd WWTP to Gila River xii. Painted Rock Reservoir - on Gila River xiii. Painted Rock Borrow Pit Lake		
	a. Attend meetings.	T = Ongoing	
	b. Collect historic information.	T = Ongoing	
	c. Establish work plan.	T = 4/03	
	8. Include interstate TMDL analysis coordination.	T = As needed	Hydrology



Goal #1: Clean & Safe Water

Program #4610: WQ Assessment GW/SW

TASK/ GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
1.8.10	TASK: TMDL Analyses (Cont'd)		
	DELIVERABLES:		
PPG	9. Commence Targeted Team Activities.		Hydrology SRO
	a. Develop boiler plate SAPs to be used for quickly planned sampling trips.	T = 7/02	
	b. Develop site specific SAPs as needed.	T = As-needed	
	c. Establish a priority ranking system to evaluate waters on the planning list.	T = 7/02	
	d. Assist TMDL project staff with monsoon sampling as needed and as time permits.	T = As needed	
	e. Commence targeted monitoring.	T = 7/02	•
	f. Commence effectiveness/verification monitoring: i. Nutrioso Creek - headwaters to Picnic Creek; ii. Nutrioso Creek - Picnic Creek to Little Colorado River; iii. Oak Creek - Slide Rock State Park	T = 6/03	· · · · · · · · · · · · · · · · · · ·
	g. Conduct pre-TMDL sampling at: i. Queen Creek - headwaters to Superior Mine WWTP;	T = 6/03	
	ii. Boulder Creek - headwaters to Wilder Creek;iii. Beaver Creek - Dry Beaver to Verde River;*iv. Wet Beaver - Long Canyon to Rarick		



Goal #1: Clean & Safe Water

Program #4610: WQ Assessment GW/SW

TASK/ GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
1.8.10	TASK: TMDL Analyses (Cont'd)		
	DELIVERABLES:		

^{*} This segment may require intense monitoring using equipment that will be available 9/03. Note: Partial freeze of state-funded FTEs is in effect.

FTE FUNDING SOURCE	MONTHS	AMOUNT
GF WQARF 319(h) NPS Impl. IV PPG PPG (SRO) ST 319(h) NPS Impl. III	9.00 6.00 13.50 8.00 16.50	20,926 16,724 38,820 27,764 58,493
WQARF PPG 319(h) NPS Impl. III 319(h) NPS Impl. IV Total	2.00 43.50 12.50	5,575 147,474 <u>36,068</u> 351,844



ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

• 3033 North Central Avenue • Phoenix, Arizona 85012-2809 • (602) 207-2300 • www.adeq.state.az.us •



April 28, 2002

Ms. Melinda Taplin, Chief Grants Administration Section, PMD-7 U.S. EPA, Region 9 75 Hawthorne Street San Francisco, CA 94105

Re: 104(b)(3) Arizona TMDL II Grant Application

Dear Ms. Taplin:

Enclosed for your consideration is the Arizona Department of Environmental Quality's grant application for the above referenced program. This application requests federal monies of \$130,000 and a budget and project period from July 1, 2002 to June 30, 2004.

A budget justification which includes budgeted categories is enclosed for your information and review.

If your staff has any questions, please contact Karen Smith for programmatic information at (602) 207-2306 or Paul Stout for budgetary information at (602) 207-4406.

Sincerely,

Jacqueline E. Schafer

Director

Enclosure